## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

| Application Serial Number: | 10/593,798 | - |
|----------------------------|------------|---|
| Source:                    | 1 / FWP    |   |
| Date Processed by STIC:    | 9/29/06    | • |
|                            |            |   |

## ENTERED

·



**IFWP** 

PATENT APPLICATION: US/10/593,798

Input Set: A:\01-SQ Listing-15 Sep 2006.txt
Output Set: N:\CRF4\09292006\J593798.raw

```
3 <110> APPLICANT: Nielsen, Allan Kent
              Rasmussen, Michael Dolberg
      6 <120> TITLE OF INVENTION: Mutated prokaryotic cells with high secretion-levels
      8 <130> FILE REFERENCE: 10576.204-US
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/593,798
C--> 10 <141> CURRENT FILING DATE: 2006-09-20
     10 <160> NUMBER OF SEQ ID NOS: 26
     12 <170> SOFTWARE: PatentIn version 3.3
     14 <210> SEQ ID NO: 1
     15 <211> LENGTH: 843
     16 <212> TYPE: DNA
     17 <213> ORGANISM: Bacillus subtilis 168
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     22 gtaaagcttg cccgatcatt tttcgtgata gccacatcaa gacagcctga aaaagcggaa
                                                                              120
     24 cagcttcgag aattggctgc agcacacaat gtgtctgatt ctattcacat tacagctctc
                                                                              180
     26 gatgtcaccg atgaacaatc tatagtctca ttcggaaaag ctgttagtgc ttacgccccg
                                                                              240
     28 atcgatttac tcgttaacaa cgccggaacg gcttatggag gatttatcga ggatgtgccg
                                                                              300
                                                                              360
     30 atggaacatt tcagacaaca atttgaaacg aatgtcttcg gtgtgatcca tgtgacaaaa
     32 accepted cttacataag aaagcatege egegeaaaga ttataaacet gagcagcate
                                                                              420
     34 agcggactga caggattccc agcgctgtcg ccatatgttt cttccaagca tgcattggaa
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     36 ggtttttctg aaagcctgcg tatcgagctg cttccgttcg gtatcgaaac cgctttgatc
                                                                              540
     38 gagccgggct catacaagac atcgatctgg tcaacgtcat tatcaaattt tatgtcggtg
                                                                              600
     40 cctgctgacg attcagccta tcatcaatac tataaaaaga tcctttccta tgttcaaaaa
                                                                              660
     42 aacggagaag aaagcggaga tccccaagag gttgccgacc tcatttatca attggcaaca
                                                                              720
     44 aaacagcaca taaagaattt gcgatacccg atcggaaagg gcatcaagct caccctgctg
                                                                              780
     46 ttccgatcgc tttttccttg gtctgcgtgg gagtctatcc tgaagaaaaa gctattcagc
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     54 <213> ORGANISM: Bacillus subtilis 168
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     59 1
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     62 Leu Leu Ala Ala Val Lys Leu Ala Arg Ser Phe Phe Val Ile Ala Thr
     63
                    20
                                        25
                                                             30
     66 Ser Arg Gln Pro Glu Lys Ala Glu Gln Leu Arg Glu Leu Ala Ala Ala
     67
                35
                                    40
     70 His Asn Val Ser Asp Ser Ile His Ile Thr Ala Leu Asp Val Thr Asp
     71
            50
                                55
                                                     60
     74 Glu Gln Ser Ile Val Ser Phe Gly Lys Ala Val Ser Ala Tyr Ala Pro
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75

80

70

75 65

Input Set : A:\01-SQ Listing-15 Sep 2006.txt
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|             | Ile  | Asp  | Leu    | Leu   |           | Asn            | Asn       | Ala   | Gly   |       | Ala    | Tyr   | Gly         | Gly   |       | Ile                |      |
|-------------|------|------|--------|-------|-----------|----------------|-----------|-------|-------|-------|--------|-------|-------------|-------|-------|--------------------|------|
| 79<br>.82 ( | ~1,, | λcn  | 17-a T | Pro   | 85<br>Mot | C1.,           | Uic       | Dho   | 7~~   | 90    | Cln    | Dho   | C1,,        | Thr   | 95    | V=1                |      |
| 83          | GIU  | Asp  | vai    | 100   | MEC       | GIU            | птэ       | FILE  | 105   | GIII  | GIII   | FIIE  | GIU         | 1110  | ASII  | Val                |      |
|             | Dhe  | G] v | Val    | Ile   | Hic       | Val            | Thr       | Lare  | _ /   | Val   | T.211  | Dro   | ጥኒታታ        |       | Ara   | Tays               |      |
| 87          | FIIC | Gry  | 115    | 116   | 1113      | vai            | TILL      | 120   | 1111  | Val   | Leu    | PIO   | 125         | 116   | Arg   | пур                |      |
|             | His  | Glv  |        | Ala   | Lvs       | Tle            | Tle       |       | Val   | Ser   | Ser    | Tle   |             | Glv   | Leu   | Thr                |      |
| 91          |      | 130  |        | 1114  |           |                | 135       |       |       |       |        | 140   |             |       | 200   |                    |      |
|             | Glv  |      | Pro    | Ala   | Leu       | Ser            |           | Tvr   | Val   | Ser   | Ser    |       | His         | Ala   | Leu   | Glu                |      |
| 95          | -    |      |        |       |           | 150            |           | -1 -  | . •   |       | 155    | -1-   |             |       |       | 160                |      |
|             |      | Phe  | Ser    | Glu   | Ser       |                | Arq       | Ile   | Glu   | Leu   |        | Pro   | Phe         | Gly   | Ile   | _                  |      |
| 99          |      |      |        |       | 165       |                |           |       |       | 170   |        |       |             | •     | 175   |                    |      |
| 102         | Thr  | Ala  | a Lei  | ı Ile | e Glu     | Pro            | Gly       | / Ser | Ty:   | Lys   | s Thr  | Ser   | : Ile       | Trp   | Sei   | r Thr              |      |
| 103         |      |      |        | 180   |           |                | _         |       | 185   | _     |        |       |             | 190   |       |                    |      |
| 106         | Ser  | Leu  | ı Ser  | c Asr | n Phe     | Met            | : Sei     | . Val | . Pro | ) Ala | a Asp  | ) Asp | Ser         | Ala   | а Туз | r His              |      |
| 107         |      |      | 195    | 5     |           |                |           | 200   | )     |       |        | _     | 205         | 5     |       |                    |      |
| 110         | Gln  | Туз  | c Tyr  | c Lys | s Lys     | $: 11\epsilon$ | e Lei     | ı Ser | Ty:   | r Val | Glr    | ı Lys | : Asr       | ı Gly | / Gli | ı Glu              |      |
| 111         |      | 210  | )      |       |           |                | 215       | 5     |       |       |        | 220   | )           |       |       |                    |      |
| 114         | Ser  | · Gl | y Asp  | Pro   | Glr       | Glu            | ı Val     | l Ala | a Asp | . Lei | ı Ile  | YY1   | Glr         | Let   | ı Ala | a Thr              |      |
| 115         | 225  |      |        |       |           | 230            | )         |       |       |       | 235    | 5     |             |       |       | 240                |      |
| 118         | Lys  | Glr  | n His  | s Ile | E Lys     | s Asr          | ı Leı     | ı Arg | туз   | c Pro | ) Ile  | e Gly | Lys         | s Gly | / Ile | e Lys              |      |
| 119         |      |      |        |       | 245       |                |           |       |       | 250   |        |       |             |       | 255   |                    |      |
| 122         | Leu  | Thi  | c Lei  | ı Let | ı Phe     | e Arg          | j Sei     | . Let |       |       | Trp    | Ser   | Ala         | Trp   | Gli   | ı Ser              | •    |
| 123         | _    |      |        | 260   |           |                | _         | _     | 265   | 5     |        |       |             | 270   | )     |                    |      |
|             |      | Lei  | _      | S Lys | S Lys     | Lei            | ı Phe     |       |       |       |        |       |             |       |       |                    |      |
| 127         |      |      | 275    |       |           |                |           | 280   | )     |       |        |       |             |       |       |                    |      |
|             |      |      |        | ID NO |           |                |           |       |       |       |        |       |             |       |       |                    |      |
|             |      |      |        | CH: 1 |           |                |           |       |       |       |        |       |             |       |       |                    |      |
|             |      |      |        | : DNA |           |                |           | .h    | :     | 1.60  |        |       |             |       |       |                    |      |
|             |      |      |        | VISM: |           | ; T T T (      | is st     | IDCTI | .1S . | 100   |        |       |             |       |       |                    |      |
|             |      |      |        | ENCE: |           | a t            | . + + + ~ | raato | ar ta | raata | artt = | . cat | tags        | taa   | taas  | acttata            | g 60 |
|             | _    |      |        |       | _         | _              |           |       |       | _     | _      |       | _           |       |       | acttgt:<br>cgtttc: | _    |
|             | _    |      |        | _     |           |                | _         | ~     | _     |       |        |       | <del></del> |       | · . · | ggaaaaa            |      |
|             |      |      |        | _     | _         | _              | _         |       | _     | _     |        |       |             |       |       | atggt              |      |
|             |      | _    | _      |       |           | _              | _         |       |       | _     |        |       |             |       |       | gtcggi             |      |
|             | _    |      |        | -     | _         | _              |           | • • • |       |       | _      |       |             |       |       | gaacgi             |      |
|             | _    |      |        |       |           | _              |           | _     | -     | -     | _      | _     |             | _     |       | ttggc              |      |
|             |      | _    | _      | _     |           | •              | _         |       |       |       | _      | _     | _           | _     |       | accgct             |      |
|             |      |      |        | _     |           |                | _         |       |       |       |        | _     |             | _     |       | gaaaa              | -    |
|             |      |      |        |       |           |                | _         |       | _     |       |        |       |             | _     | _     | aaaact             |      |
|             |      |      |        |       |           |                |           |       |       |       |        |       |             |       |       | gatga              |      |
|             |      |      | _      |       |           |                |           |       |       |       |        |       | _           | _     | _     | attcact            |      |
|             |      |      |        |       |           |                | _         |       |       |       |        |       |             |       |       | agtcgg             |      |
|             |      |      |        |       |           |                |           | _     |       |       |        |       |             |       |       | tcggg              |      |
|             |      |      |        |       |           |                |           |       | =     |       |        |       |             |       |       | ggaagca            |      |
|             |      |      |        |       |           |                |           |       |       |       |        |       |             |       |       | agcttca            |      |
|             |      |      |        |       |           |                |           |       |       |       |        |       |             |       |       | ggaagaa            |      |
|             |      |      |        |       |           |                |           | _     | _     | _     |        |       |             |       |       | cattca             |      |
|             | _    |      |        |       |           |                | _         |       |       | -     | _      |       |             |       |       |                    |      |

Input Set : A:\01-SQ Listing-15 Sep 2006.txt
Output Set: N:\CRF4\09292006\J593798.raw

| 174<br>176<br>178<br>180<br>182<br>184<br>186<br>189<br>190<br>191 | gcaagatttc tatttgaaac gagattctac gaggaacgaa agcggggagt ggtaccggcc 4 agccgcttga atgagctgat ggaagaggcg caaagagagg catactgcaa tgcgttagaa 6 gaatatcatc cgcttttttg ggcatcaaag cttcattttc acatcacgag ggtgccgttt 8 tacaatttcc cttatacatt cggctacctg ttttctcttg gtatttacgc gttggcgctt 0 gaagaaaaag acacattcga agagaagtat atggcgctat tgcgcgatac ggcttctatg 2 acagtggagg atttggcgat gaagcatttg ggcgctgaca tcacaaagcg cgatttctgg 4 gagaatgcca tcaagctggc tgtgcgtgac gccgaaacct ttttacaaat gaccgaatct 6 taa 9 <210> SEQ ID NO: 4 0 <211> LENGTH: 500 1 <212> TYPE: PRT 2 <213> ORGANISM: Bacillus subtilis 168 |             |     |          |          |     |          |     |          |     |     |     |     | 1140<br>1200<br>1260<br>1320<br>1380<br>1440<br>1500<br>1503 |              |     |  |
|--|--|-------------|-----|----------|----------|-----|----------|-----|----------|-----|-----|-----|-----|--|--------------|-----|--|
| 194  | 4 <400> SEQUENCE: 4  |             |     |          |          |     |          |     |          |     |     |     |     |  |              |     |  |
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| 197  | 1  |             |     |          | 5        |     |          |     |          | 10  |     |     |     |  | 15           |     |  |
| 200  | His  | Lys         | Leu | Val      | Asp      | Ile | Asn      | Gln | Asp      | Val | Trp | Asn | Glu | Leu  | Leu          | Thr |  |
| 201  |  | _           |     | 20       | _        |     |          |     | 25       |     |     |     |     | 30   |              |     |  |
| 204  | Lys  | Pro         | Gly | Leu      | Arq      | Asp | Val      | Ser | Tyr      | Ile | Leu | Asn | Glu | Arg  | Arg          | Gln |  |
| 205  | •  |             | 35  |          | J        | _   |          | 40  | •        |     |     |     | 45  |  | _            |     |  |
| 208  | Ara  | Val         | Ala | Glu      | Lvs      | Leu | Ser      | Pro | Glv      | Lvs | Glu | Lvs | Leu | Ile  | Gly          | Asn |  |
| 209  | J  | 50          |     |          | 4        |     | 55       |     | - 4      | 4   |     | 60  |     |  | 4            |     |  |
|  | Leu  |             | Val | Asp      | Glv      | Tvr | His      | Ala | Trp      | Ser | Asp |     | Tvr | Asn  | Met          | Val |  |
| 213  |  |             |     | L        | 7        | 70  |          |     | <b>L</b> |     | 75  |     |     |  |              | 80  |  |
|  |  | Glv         | Lvs | Met      | Thr      |     | Pro      | Tvr | Glu      | Glu |     | Glv | Glu | Asn  | Lvs          |     |  |
| 217  |  | <b>4</b> -1 | -1- |          | 85       |     |          | -1- | <b></b>  | 90  |     | 1   |     |  | 95           |     |  |
|  | Len  | Ser         | Val | Glv      |          | Δla | Glu      | Asn | Met      |     | Asp | His | Gln | Asp  |              | Thr |  |
| 221  |  |             |     | 100      |          |     |          |     | 105      |     |     |     |     | 110  | 3            |     |  |
|  | Val  | Ara         | Lvs |          | Val      | Tvr | Glu      | Ara |          | Ara | Gln | Ala | Trp |  | Ser          | Lvs |  |
| 225  |  | 5           | 115 |          |          | -1- | <b>5</b> | 120 |          | 5   | 02  |     | 125 | <b>U</b>   | <del>-</del> | -1  |  |
|  |  | Asp         |     | Phe      | Ser      | Ser | Thr      |     | Asn      | His | Leu | Ala |     | Phe  | Ara          | Leu |  |
| 229  |  | 130         |     |          |          |     | 135      |     |          |     |     | 140 | 1   |  | <b>J</b>     |     |  |
|  |  |             | Tvr | Lvs      | Ala      | Ara | Gly      | Trp | Glu      | Asn | Val |     | Lvs | Glu  | Pro          | Leu |  |
|  | 145  |             | 4   | 4        |          | 150 | 4        | •   |          |     | 155 |     | 4   |  |              | 160 |  |
|  | _  | Ile         | Asn | Arq      | Met      | Lys | Lys      | Glu | Thr      | Leu | Asp | Thr | Met | Trp  | Gln          | Val |  |
| 237  |  |             |     | <b>J</b> | 165      | 4   | 4        |     |          | 170 | _   |     |     | _  | 175          |     |  |
| 240  | Ile  | Thr         | Glu | Asn      | Lys      | Lys | Pro      | Phe | Val      | Gln | Phe | Leu | Asn | Arq  | Lys          | Ala |  |
| 241  |  |             |     | 180      | •        | •   |          |     | 185      |     |     |     |     | 190  | -            |     |  |
| 244  | Ser  | Met         | Leu | Gly      | Leu      | Glu | Lys      | Leu | Ser      | Trp | Tyr | Asp | Val | Glu  | Ala          | Pro |  |
| 245  |  |             | 195 | •        |          |     | •        | 200 |          | •   | 4   | •   | 205 |  |              |     |  |
|  | Ile  | Glv         |     | Asp      | Glv      | Lvs | Val      |     | Ser      | Tvr | Asp | Glu |     | Ala  | Asn          | Ile |  |
| 249  |  | 210         |     | •        | •        | •   | 215      | •   |          | 4   | •   | 220 |     |  |              |     |  |
|  | Ile  |             | Ser | Gln      | Phe      | Ser | Thr      | Phe | Gly      | Lvs | Lvs | Leu | Ser | Ser  | Phe          | Thr |  |
|  | 225  | _           | _   | –        | -        | 230 | _        | _   | 4        | 4   | 235 | -   |     |  |              | 240 |  |
|  |  | Lys         | Ala | Phe      | Arq      |     | Gly      | Trp | Ile      | Glu |     | Glu | Asp | Arq  | Ser          | _   |  |
| 257  |  | -           |     |          | 245      | -   | 4        | -   |          | 250 |     |     | -   | J  | 255          | _   |  |
|  | Lys  | Arq         | Val | Gly      | Gly      | Phe | Cys      | Thr | Ser      |     | Pro | Asp | Ser | Gly  | _            | Ser |  |
| 261  | •  | J           |     | 260      | <b>.</b> |     | -        |     | 265      | _   |     | T.  |     | 270  |              |     |  |
|  | Arq  | Ile         | Phe |          | Thr      | Phe | Ser      | Gly | Ser      | Ala | Ser | Asn | Val | Ser  | Thr          | Leu |  |
| 265  | _  |             | 275 |          |          |     |          | 280 |          |     |     |     | 285 |  |              |     |  |
|  |  |             |     |          |          |     |          |     |          |     |     |     |     |  |              |     |  |

Input Set : A:\01-SQ Listing-15 Sep 2006.txt
Output Set: N:\CRF4\09292006\J593798.raw

| 268<br>269 |      | His<br>290 |                | Leu        | Gly        | His        | Ala<br>295 | Phe        | His        | Gln        | Glu        | Ala        | Met        | Leu        | Asn        | Val              |            |
|------------|------|------------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------------|------------|
| 272        |      |            |                | Asn        | Arg        | Ser<br>310 | Tyr        | Ala        | Met        | Asn        | Val<br>315 |            | Glu        | Thr        | Ala        | Ser<br>320       |            |
|            | Thr  | Phe        | Ala            | Glu        | Met<br>325 | Ile        | Val        | Ala        | Asp        | Ala<br>330 |            | Val        | Gln        | Gln        | Ala<br>335 |                  |            |
| 280<br>281 |      | Arg        | Glu            | Glu<br>340 | Lys        | Leu        | Val        | Leu        | Leu<br>345 | Glu        | Asp        | Lys        | Val        | Gln<br>350 | Arg        | Ser              |            |
| 284<br>285 |      | Ala        | Phe<br>355     | Phe        | Met        | Asn        | Ile        | His<br>360 | Ala        | Arg        | Phe        | Leu        | Phe<br>365 | Glu        | Thr        | Arg              |            |
| 288<br>289 |      | Tyr<br>370 | Glu            | Glu        | Arg        | Lys        | Arg<br>375 | Gly        | Val        | Val        | Pro        | Ala<br>380 | Ser        | Arg        | Leu        | Asn              |            |
| 293        | 385  |            |                |            |            | 390        |            | _          |            |            | 395        | _          | •          |            | Leu        | 400              |            |
| 297        |      |            |                |            | 405        |            | _          |            |            | 410        |            |            |            |            | Ile<br>415 |                  |            |
| 301        |      |            |                | 420        |            |            |            |            | 425        |            |            | _          | _          | 430        | Phe        |                  |            |
| 305        |      | _          | 435            | _          |            |            |            | 440        |            |            | -          | _          | 445        | _          | Glu        |                  |            |
| 309        | -    | 450        |                |            |            |            | 455        | _          |            |            |            | 460        |            |            | Glu        | _                |            |
| 313        | 465  |            |                | _          |            | 470        | _          |            |            |            | 475        |            |            | _          | Phe<br>Leu | 480              |            |
| 317        |      |            | Glu            |            | 485        | Беа        | AIG        | vai        | Arg        | 490        | Ala        | Gru        | 1111       | FIIC       | 495        | GIII             |            |
| 321        |      |            | EQ II          | 500        | : 5        |            |            |            |            |            |            |            |            |            |            |                  |            |
| 325        | <213 | L> LI      | ENGTI<br>YPE : | H: 29      |            |            |            |            |            |            |            |            |            |            |            |                  |            |
|            |      |            | RGAN I         |            |            | illus      | s sub      | otili      | is 16      | 8 8        |            |            |            |            |            |                  |            |
|            |      |            |                |            |            | _          | _          |            |            | _          |            |            |            | _          |            | gggagc<br>ttcaa  | 60<br>120  |
|            | _    |            | _              |            |            |            | _          | _          | _          | •          | _          |            | _          |            | _          | accgcg<br>gttgct | 180<br>240 |
|            | _    |            | agg (          | _          | -          | at ca      | aatga      | atcaa      | a aag      | ggcta      | atag       | agca       | atcag      | ggc (      | ctcat      | .ga              | 297        |
|            |      |            | ENGTI<br>PE :  |            | 3          |            |            |            |            |            |            |            |            |            |            |                  |            |
|            |      |            | RGANI<br>EQUEN |            |            | llus       | s sub      | otili      | is 16      | 58         |            |            |            |            |            |                  |            |
| 349        | 1    |            |                |            | 5          |            | _          |            |            | 10         | -          |            | _          |            | Phe<br>15  |                  |            |
| 353        |      |            |                | 20         |            |            |            |            | 25         |            |            |            |            | 30         | Lys        |                  |            |
| 356<br>357 | Ser  | Gln        | Ser<br>35      | Leu        | Arg        | Ala        | Phe        | Gln<br>40  | Asp        | Arg        | Thr        | Asp        | Ala<br>45  | Phe        | Gln        | Val              |            |

Input Set : A:\01-SQ Listing-15 Sep 2006.txt
Output Set: N:\CRF4\09292006\J593798.raw

. . . .

| 360<br>361 | Pro Glu Ser Pro Glu Glu Ala Glu Gly Leu Thr Ala Leu Leu Asp Leu 50 55 60 |     |  |  |  |  |  |  |  |  |  |  |  |  |
|------------|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|
| 364<br>365 | Ile Glu Gln Thr Ser Val Lys Leu Gln Gln Ala Gly Ala Phe Val Ala 70 75 80 |     |  |  |  |  |  |  |  |  |  |  |  |  |
|            | Cys Leu Gln Ala Gln Asn Ile Asn Asp Gln Lys Ala Ile Glu His Gln          |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 369        | 90 95  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 372        | Ala Ser  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 376        | <210> SEQ ID NO: 7   |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 377        | <211> LENGTH: 25   |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 378        | <212> TYPE: DNA  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 379        | <213> ORGANISM: artificial sequence                                      |     |  |  |  |  |  |  |  |  |  |  |  |  |
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| 382        | 2 <223> OTHER INFORMATION: Primer yusZ1F                                 |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 384        | 4 <400> SEQUENCE: 7  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 385        | ccttcccggg gctaagcttt tcggc  | 25  |  |  |  |  |  |  |  |  |  |  |  |  |
| 388        | <210> SEQ ID NO: 8   |     |  |  |  |  |  |  |  |  |  |  |  |  |
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|            | <223> OTHER INFORMATION: Primer yusZ2R                                   |     |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <400> SEQUENCE: 8  | 2.0 |  |  |  |  |  |  |  |  |  |  |  |  |
|            | gatagactcc cacgcgctgg acgctcctgt   | 30  |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <210> SEQ ID NO: 9   |     |  |  |  |  |  |  |  |  |  |  |  |  |
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|            | acaggagcgt ccagcgcgtg ggagtctatc   | 30  |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <210> SEQ ID NO: 10  | 30  |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <211> LENGTH: 25   |     |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <212> TYPE: DNA  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 415        | <213> ORGANISM: artificial sequence                                      |     |  |  |  |  |  |  |  |  |  |  |  |  |
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| 418        | <223> OTHER INFORMATION: Primer yusZ3R                                   |     |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <400> SEQUENCE: 10   |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 421        | aacggtaccc tgaccaagca gacag  | 25  |  |  |  |  |  |  |  |  |  |  |  |  |
| 424        | <210> SEQ ID NO: 11  |     |  |  |  |  |  |  |  |  |  |  |  |  |
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| 430        | <223> OTHER INFORMATION: Primer yusX1F                                   |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 432        | <400> SEQUENCE: 11   |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 433        | aatgcccggg caagctttac agctg  | 25  |  |  |  |  |  |  |  |  |  |  |  |  |
|            | <210> SEQ ID NO: 12  |     |  |  |  |  |  |  |  |  |  |  |  |  |
| 437        | <211> LENGTH: 30   |     |  |  |  |  |  |  |  |  |  |  |  |  |

VERIFICATION SUMMARY

. . . .

DATE: 09/29/2006

PATENT APPLICATION: US/10/593,798

TIME: 09:07:27

Input Set : A:\01-SQ Listing-15 Sep 2006.txt
Output Set: N:\CRF4\09292006\J593798.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date